

**Supplementary Table 1.** ICD-9-CM and CPT codes used in cohort definition

Code name	Code type	Code(s)
Inclusion criteria		
Lumbar disc displacement	ICD-9-CM	72210
Laminotomy (hemilaminectomy) with decompression of nerve root(s), including partial facetectomy foraminotomy and/or excision of herniated intervertebral disc; one interspace lumbar	CPT	63030
Transpedicular approach with decompression of spinal cord equina and/or nerve root(s) (e.g., herniated intervertebral disc) single segment; lumbar (including transfacet or lateral extraforaminal approach)	CPT	63056
Exclusion criteria		
Arthrodesis or instrumentation	CPT	22101, 22102, 22103, 22110, 22114, 22116, 22707, 22208, 22214, 22224, 22533, 22534, 22558, 22586, 22612, 22630, 22633, 22800, 22819, 22840, 22842 22865
Revision discectomy	CPT	63042

ICD-9-CM, International Classification of Diseases, 9th edition, clinical modification; CPT, current procedural terminology.